

IN THE CLAIMS:

Please amend claims 1, 11, 35, 44, 47, 51-55, 65, and 73, and add new claims 74-146 as follows (a clean copy of all of the claims is attached at the end of this amendment):

1. (Three Times Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a receiver coupled to the housing, and wherein the receiver is for receiving remotely generated commands;

a processor coupled to the housing and the receiver, and wherein the processor [to] receives remotely generated commands from the receiver, and wherein the processor [to] controls the external infusion device in accordance with the remotely generated commands; and

an indication device, providing at least one of a visual indication, an audible indication or a tactile indication, to indicate when a command has been received and indicate when the command is being utilized to control the external infusion device,

wherein [such that] the external infusion device is capable of being concealed from view on an individual when being remotely commanded.

11. (Three Times Amended) An infusion system for infusing a liquid into a body from a reservoir, the infusion system comprising:

an external infusion device including:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a receiver coupled to the housing, and wherein the receiver is for receiving remotely generated commands;

a processor coupled to the housing and the receiver, and wherein the processor [to] receives remotely generated commands from the receiver, and wherein the processor [to] controls the external infusion device in accordance with the remotely generated commands; and

an indication device, providing at least one of a visual indication, an audible indication or a tactile indication, to indicate when a command has been received and indicate when the command is being utilized to control the external infusion device,

wherein [such that] the external infusion device is capable of being concealed when being remotely commanded; and

a remote commander including:

a commander housing;

a keypad coupled to the commander housing for inputting commands; and

a transmitter coupled to the keypad for wirelessly transmitting commands to the receiver of the external infusion device.

35. (Three Times Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;  
a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

a bolus estimator used in conjunction with the processor and externally supplied values to estimate an amount of liquid to be infused based upon an estimate of a material to be ingested by the body; and

an indication device, providing at least one of a visual indication, an audible indication or a tactile indication, to indicate when an amount of fluid to be infused has been calculated.

44. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing [containing a reservoir, wherein the housing is] adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing; and

a vibration alarm used in conjunction with the processor to provide an alarm, and to generate sufficient vibration to assist in removing gas bubbles from the fluid in the reservoir during priming of the external infusion device.

47. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing [containing a reservoir, wherein the housing is] adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

an audible alarm coupled to the processor; and

a vibration alarm used in conjunction with the processor and the audible alarm to provide an alarm.

51. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

a keypad coupled to the housing and used in conjunction with the processor to determine an estimate of remaining battery power; and

an indication device, providing at least one of a visual indication, an audible indication or a tactile indication, to indicate the estimate of remaining battery power.

52. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;  
a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

a memory coupled to and used in conjunction with the processor to store at least two personal delivery patterns;

a keypad coupled to the housing and used in conjunction with the processor to select one of the at least two personal delivery patterns; and

an indication device to indicate the selected personal delivery pattern,

wherein the processor controls the external infusion device in accordance with the selected one of the at least two personal delivery patterns.

53. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a receiver coupled to the housing for receiving remotely generated commands;

a processor coupled to the housing;

a memory coupled to and used in conjunction with the processor to store at least two personal delivery patterns, wherein the processor is coupled to the receiver to receive the remotely generated commands and to control the external infusion device in accordance with the commands to select one of the at least two personal delivery patterns; and

an indication device to indicate the selected personal delivery pattern and when a command has been received to control the external infusion device in accordance with the selected personal delivery pattern such that the external infusion device is capable of being concealed from view when being remotely commanded,

wherein the processor controls the external infusion device in accordance with the selected one of the at least two personal delivery patterns.

54. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

a memory coupled to and used in conjunction with the processor to store at least two basal rate profiles;

a keypad coupled to the housing and used in conjunction with the processor to program the at least two basal rate profiles; and

an indication device to indicate the basal rate profiles during programming,

wherein the processor controls the external infusion device in accordance with the programmed at least two basal rate profiles.

55. (Twice Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing;

a memory coupled to and used in conjunction with the processor to store at least two bolus types;

a keypad coupled to the housing and used in conjunction with the processor to select one of the at least two bolus types; and

an indication device to indicate the selected bolus type,

wherein the processor controls the external infusion device in accordance with the selected one of the at least two bolus types.

65. (Twice Amended) An external infusion device for infusion of a liquid into a body of a user from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing [containing a reservoir, wherein the housing is] adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a processor coupled to the housing; and

a vibration alarm used in conjunction with the processor to provide one or more tactile sensations to a user.



73. (Amended) An external infusion device for infusion of a liquid into a body from a reservoir, the external infusion device comprising:

a drive mechanism to operatively couple with a reservoir to infuse a liquid into a body;

a housing adapted for use on an exterior of the body, wherein the housing is sized to contain at least a portion of a reservoir, wherein the drive mechanism is contained within the housing, wherein the drive mechanism operatively couples with the at least a portion of a reservoir within the housing, and wherein the housing is sized to fit in a clothing pocket;

a receiver coupled to the housing for receiving remotely generated commands;

a processor coupled to the housing and the receiver to receive remotely generated commands and to control the external infusion device in accordance with the commands; and

an indication device to indicate, independent of an RF transmission, when a command has been received and indicate when the command is being utilized to control the external infusion device such that the external infusion device is capable of being concealed from view on an individual when being remotely commanded.

--74. (New) An external infusion device according to claim 1, wherein the housing is further adapted to be worn on a belt. --

--75. (New) An external infusion device according to claim 1, wherein the housing is further adapted to be worn under clothing. --

--76. (New) An external infusion device according to claim 1, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--77. (New) An external infusion device according to claim 1, wherein the housing is further adapted to be worn against the skin. --

--78. (New) An external infusion device according to claim 1, wherein the housing is further sized to be contained in the pocket. --

--79. (New) An external infusion device according to claim 1, wherein the housing is further sized to be held within the pocket. --

--80. (New) An external infusion device according to claim 11, wherein the housing is further adapted to be worn on a belt. --

--81. (New) An external infusion device according to claim 11, wherein the housing is further adapted to be worn under clothing. --

--82. (New) An external infusion device according to claim 11, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--83. (New) An external infusion device according to claim 11, wherein the housing is further adapted to be worn against the skin. --

--84. (New) An external infusion device according to claim 11, wherein the housing is further sized to be contained in the pocket. --

--85. (New) An external infusion device according to claim 11, wherein the housing is further sized to be held within the pocket. --

--86. (New) An external infusion device according to claim 35, wherein the housing is further adapted to be worn on a belt. --

--87. (New) An external infusion device according to claim 35, wherein the housing is further adapted to be worn under clothing. --

--88. (New) An external infusion device according to claim 35, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--89. (New) An external infusion device according to claim 35, wherein the housing is further adapted to be worn against the skin. --

--90. (New) An external infusion device according to claim 35, wherein the housing is further sized to be contained in the pocket. --

--91. (New) An external infusion device according to claim 35, wherein the housing is further sized to be held within the pocket. --

--92. (New) An external infusion device according to claim 44, wherein the housing is further adapted to be worn on a belt. --

--93. (New) An external infusion device according to claim 44, wherein the housing is further adapted to be worn under clothing. --

--94. (New) An external infusion device according to claim 44, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--95. (New) An external infusion device according to claim 44, wherein the housing is further adapted to be worn against the skin. --

--96. (New) An external infusion device according to claim 44, wherein the housing is further sized to be contained in the pocket. --

--97. (New) An external infusion device according to claim 44, wherein the housing is further sized to be held within the pocket. --

--98. (New) An external infusion device according to claim 47, wherein the housing is further adapted to be worn on a belt. --

--99. (New) An external infusion device according to claim 47, wherein the housing is further adapted to be worn under clothing. --

--100. (New) An external infusion device according to claim 47, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--101. (New) An external infusion device according to claim 47, wherein the housing is further adapted to be worn against the skin. --

--102. (New) An external infusion device according to claim 47, wherein the housing is further sized to be contained in the pocket. --

--103. (New) An external infusion device according to claim 47, wherein the housing is further sized to be held within the pocket. --

--104. (New) An external infusion device according to claim 51, wherein the housing is further adapted to be worn on a belt. --

--105. (New) An external infusion device according to claim 51, wherein the housing is further adapted to be worn under clothing. --

--106. (New) An external infusion device according to claim 51, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--107. (New) An external infusion device according to claim 51, wherein the housing is further adapted to be worn against the skin. --

--108. (New) An external infusion device according to claim 51, wherein the housing is further sized to be contained in the pocket. --

--109. (New) An external infusion device according to claim 51, wherein the housing is further sized to be held within the pocket. --

--110. (New) An external infusion device according to claim 52, wherein the housing is further adapted to be worn on a belt. --

--111. (New) An external infusion device according to claim 52, wherein the housing is further adapted to be worn under clothing. --

--112. (New) An external infusion device according to claim 52, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--113. (New) An external infusion device according to claim 52, wherein the housing is further adapted to be worn against the skin. --

--114. (New) An external infusion device according to claim 52, wherein the housing is further sized to be contained in the pocket. --

--115. (New) An external infusion device according to claim 52, wherein the housing is further sized to be held within the pocket. --

--116. (New) An external infusion device according to claim 53, wherein the housing is further adapted to be worn on a belt. --

--117. (New) An external infusion device according to claim 53, wherein the housing is further adapted to be worn under clothing. --

--118. (New) An external infusion device according to claim 53, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--119. (New) An external infusion device according to claim 53, wherein the housing is further adapted to be worn against the skin. --

--120. (New) An external infusion device according to claim 53, wherein the housing is further sized to be contained in the pocket. --

--121. (New) An external infusion device according to claim 53, wherein the housing is further sized to be held within the pocket. --

--122. (New) An external infusion device according to claim 54, wherein the housing is further adapted to be worn on a belt. --

--123. (New) An external infusion device according to claim 54, wherein the housing is further adapted to be worn under clothing. --

--124. (New) An external infusion device according to claim 54, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--125. (New) An external infusion device according to claim 54, wherein the housing is further adapted to be worn against the skin. --

--126. (New) An external infusion device according to claim 54, wherein the housing is further sized to be contained in the pocket. --

--127. (New) An external infusion device according to claim 54, wherein the housing is further sized to be held within the pocket. --

--128. (New) An external infusion device according to claim 55, wherein the housing is further adapted to be worn on a belt. --

--129. (New) An external infusion device according to claim 55, wherein the housing is further adapted to be worn under clothing. --

--130. (New) An external infusion device according to claim 55, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--131. (New) An external infusion device according to claim 55, wherein the housing is further adapted to be worn against the skin. --

--132. (New) An external infusion device according to claim 55, wherein the housing is further sized to be contained in the pocket. --

--133. (New) An external infusion device according to claim 55, wherein the housing is further sized to be held within the pocket. --

--134. (New) An external infusion device according to claim 65, wherein the housing is further adapted to be worn on a belt. --

--135. (New) An external infusion device according to claim 65, wherein the housing is further adapted to be worn under clothing. --

--136. (New) An external infusion device according to claim 65, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--137. (New) An external infusion device according to claim 65, wherein the housing is further adapted to be worn against the skin. --

--138. (New) An external infusion device according to claim 65, wherein the housing is further sized to be contained in the pocket. --

--139. (New) An external infusion device according to claim 65, wherein the housing is further sized to be held within the pocket. --

--140. (New) An external infusion device according to claim 73, wherein the housing is further adapted to be worn on a belt. --

--141. (New) An external infusion device according to claim 73, wherein the housing is further adapted to be worn under clothing. --

--142. (New) An external infusion device according to claim 73, wherein the housing is sized to allow for concealment under clothing in a generally unobtrusive manner. --

--143. (New) An external infusion device according to claim 73, wherein the housing is further adapted to be worn against the skin. --

--144. (New) An external infusion device according to claim 73, wherein the housing is further sized to be contained in the pocket. --

--145. (New) An external infusion device according to claim 73, wherein the housing is further sized to be held within the pocket. --

--146. (New) An external infusion device according to claim 1, wherein the receiver receives wireless and remotely generated commands, wherein the process or receives the wireless and remotely generated commands from the receiver, and wherein the processor controls the external infusion device in accordance with the wireless and remotely generated commands. --